



MIDIH Final Event – Session 2

The MIDIH Project



MIDIH Final Event

Digital Manufacturing Platforms

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Platforms Momentum

B2C platforms are championed by US and China

"B2B platforms are the next battle Europe cannot afford to lose"

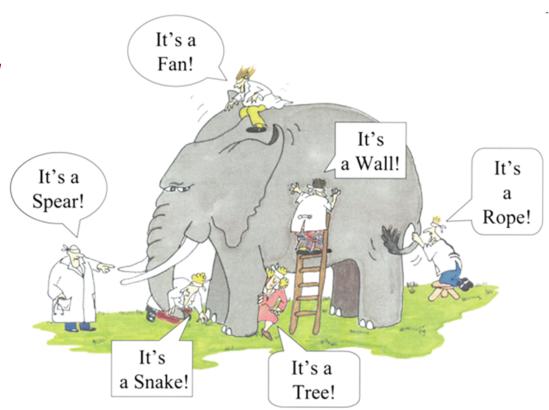
- EU is leader in manufacturing and it is of strategic importance for the future of the European economy
- 5 out of the 9 best factories in the world, as identified by the World Economic Forum are in Europe
 - √ Schneider Electric (France)
 - √ Bayer, Division Pharmaceuticals (Italy)
 - ✓ Johnson & Johnson DePuy Synthes (Ireland)
 - ✓ Phoenix Contact (Germany)
 - ✓ Procter & Gamble (Czech Republic)

In China, but <u>European</u>:

- ✓ <u>Siemens</u> Industrial Automation Products (Chengdu, China)
- √ <u>Bosch</u> Automotive (Wuxi, China)



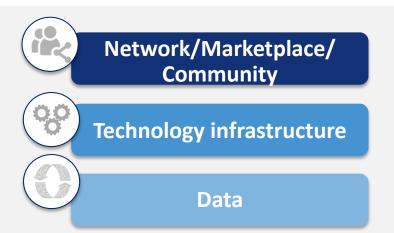
- X A place or opportunity for public discussion e.g. European Platform of National Initiatives
- ✓ An operating system that integrates different technologies and various applications and services
 - X Online platforms in the consumer world e.g. Facebook, Nest, Android
 - ✓ Industrial platforms in the business world





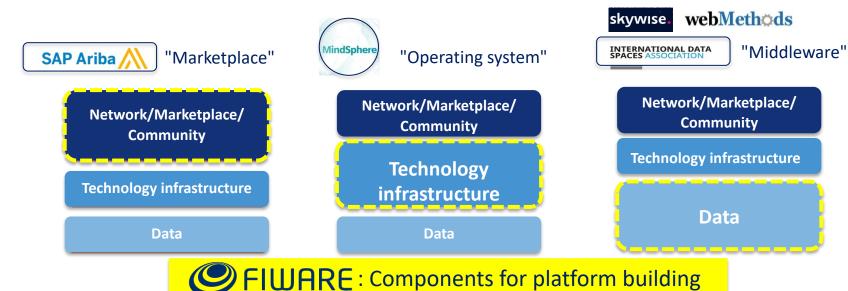
Digital Industrial Platforms Roles

Roles of digital industrial platforms



- Explicit connections between users
- Network is key value
- Complementary applications
- Development platforms
- Unlock data
- Integration

Examples of how different platforms fill in roles in different ways and to varying degrees



Shaping digitalisation at a global level

EUROPE SHOULD LEAD IN B2B PLATFORMS

- ✓ Platforms are markets / **OPENNESS** grows the market
- ✓ **COLLABORATIVE, SIMPLE & SCALABLE** ecosystems
- ✓ Move with the SPEED of digital not the manufacturing industry
- ✓ TO MAKE IT WORK WE NEED TO WORK TOGETHER!



Shaping digitalisation at a global level

HOWEVER, EUROPE NEEDS TO...

- ⇒ **Shape** the B2B platform landscape
- ⇒ Respect European values
- ⇒ Generate rich ecosystems
- ⇒ Address European fragmentation
- ⇒ Set up **interoperability framework** that best serves EU industry.
- ⇒ Have an integrated approach to deal with multiple "languages"





Digital Industrial Platform Building for Manufacturing: EU Strategy

2016

- Collaborative manufacturing and logistics plus factory automation
- Multi-sided markets
- 53 M€. 10 Research and Innovation Actions

FOF-11-2016 - Digital automation



2018

- Consolidation from 2016 and cooperation with national initiatives
- Agile value networks; Zero-defects manufacturing
- DEI Focus Area: Platforms & Pilots
- 48 M€, 3 Innovation Actions





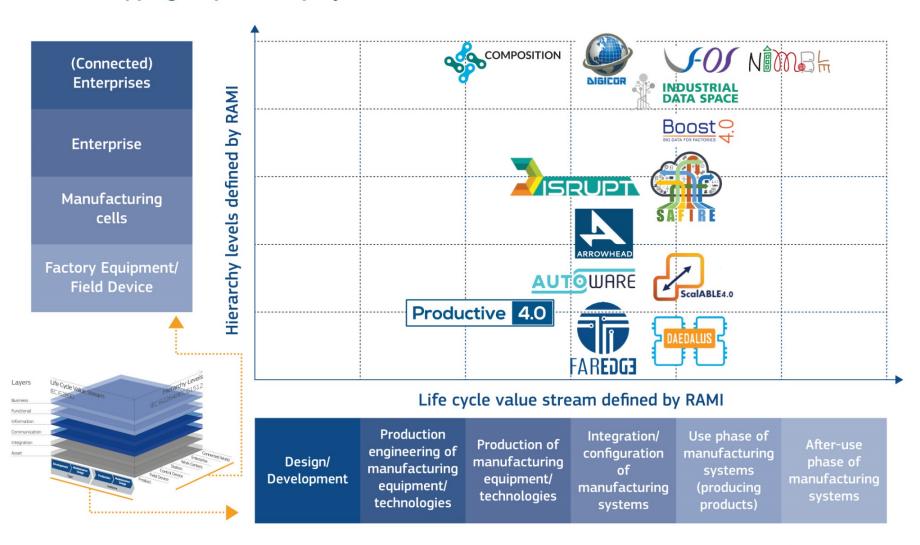
2019

- Further Consolidation
- Human factor; Sustainable value networks
- Market picking up b2b platforms:
 - → Increased attention for user requirements
 - → Federation of platforms
 - 47 M€, Innovation Actions + add CSA



Digital Industrial Platforms Mapping on RAMI

Mapping EU platform projects on the RAMI 4.0 reference architecture model





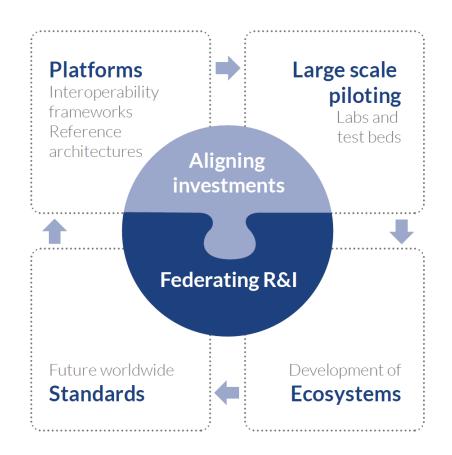


Digital industrial platforms

Platform is not only technology!

- Interoperability
- Consolidation of standards
- Trusted Business models
- Ecosystem speed up and scale up adoption, SMEs

Instrumental for the rollout of business models that address the needs of every business in any industrial sector





Expectations from the projects:

- Digital manufacturing platform with impact
- Development of the platform at the very beginning of the project, not at the end. All aspects taken into account!
- Large scale federating project. Reduce fragmentation.
- Credibility
 - Clear strategy how the platform will leverage impact. (i.e. how it will support the competitiveness of companies using the platform, how it will address SME needs, ...)
 - Address the most important barriers: interoperability, data governance, SME friendliness, ...
 - Steps and phases towards a sustainable ecosystem
 - Real world demand and how the project achieve results
- Strong monitoring of the impact of the project, not only at the end of it



Platform exploitation and operation

Objective: At the end of the project the platform should be prepared to enter the market

- Clear entity representing the interests of the overall platform
- How you will make it sustainable

But...

- We have had bad experiences with spin-offs from projects.
 Need evidence!
- The efforts assigned to the new partner should be enough and consistent with the impact expected
- Planning to ensure the platform operation after the lifetime of the project



Each partner should perform its role in the project

- Well-balanced consortium ... make the most of the project!
- Who is (are) representing the interest of the platform? How are they collaborating to achieve this goal?
- End users are key for the project pilots and use cases

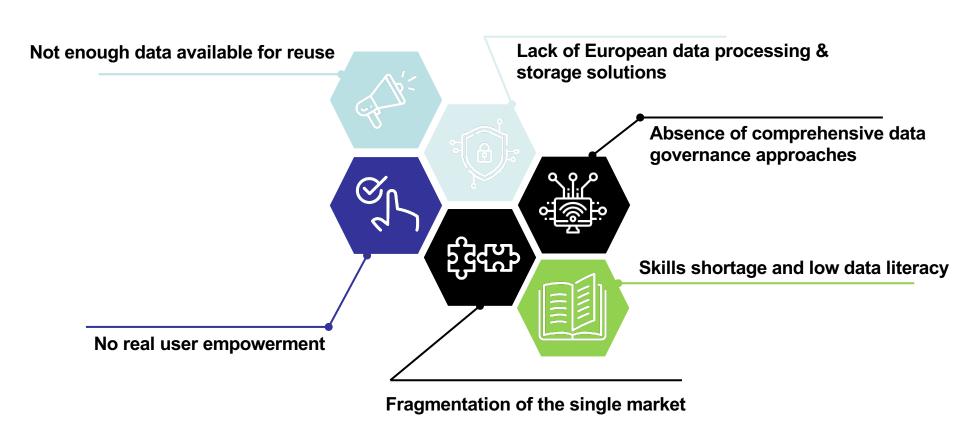


Cooperation, shaping the Future of Industrial Manufacturing Platforms

- Collaboration among platform projects and CSAs to increase the impact of this initiative
- Closer pre-commercial collaboration with other B2B platform providers
- Intensify collaboration among European actors to win the B2B battle race (commercial platforms providers, European initiatives such as IDS, FIWARE, ...)
- Strength of working together to shape the future of the manufacturing industry - Horizon Europe



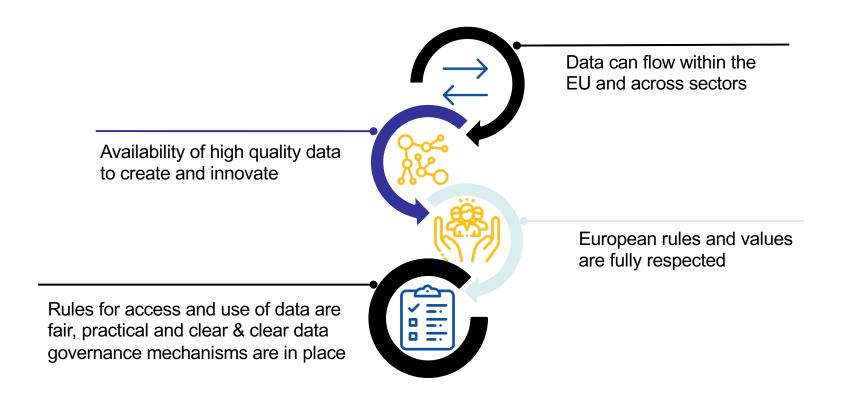
Data is essential, however...





European Strategy for Data

A common European data space, a single market for data





Common European Data Spaces

Rich pool of data (varying degree of accessibility)

Free flow of data across sectors and countries

Full respect of GDPR

Horizontal framework for data governance and data access



- -Technical tools for data pooling and sharing
- —Standards & interoperability (technical, semantic)
- Sectoral Data Governance (contracts, licenses, access rights, usage rights)
- IT capacity, including cloud storage, processing and services



Thank you!

Contacts



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Follow the latest progress and get involved



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